

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13347

A. CLASSIFICATION OF SUBJECT MATTER
Int.C1' G10L19/00, 19/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.C1' G10L19/00, 19/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-146997 A (Hitachi, Ltd.), 07 June, 1996 (07.06.96), (Family: none)	1-13
Y	JP 11-272298 A (Kokusai Electric Co., Ltd.), 08 October, 1999 (08.10.99), (Family: none)	1-13
Y	JP 10-31499 A (Nippon Telegraph And Telephone Corp.), 03 February, 1998 (03.02.98), (Family: none)	1-13
Y	JP 9-172413 A (Kokusai Electric Co., Ltd.), 30 June, 1997 (30.06.97), (Family: none)	1-13

Further documents are listed in the continuation of Box C. See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 11 November, 2003 (11.11.03)	Date of mailing of the international search report 25 November, 2003 (25.11.03)
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Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
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